APPENDIX A
CompTIA Server+ Certification Exam: Practice Test 1

Choose the best answer available for each of the following multiple choice and match the following questions. The answers to these questions are in Appendix E.

1. **What is the software licensing model that is commonly used in virtualized environments for VM running on a host?**

   a. Per core

   b. Per instance

   c. Per subscriber

   d. Per socket

2. **What type of server hosts protocols like DNS, DHCP, VoIP, and NTP?**

   a. Proxy server

   b. File server

c. Messaging server

d. Network server

3. **True or False: A virtual server is any server that hosts virtual private networks.**

   a. True

   b. False

4. **What is the standard height dimension of a rack unit or “U”?**

   a. 1.75 inches

   b. 2.75 inches

   c. 3.50 inches

   d. 50 millimeters

5. **What are the voltages produced by an ATX PSU for the internal components of server hardware? Choose all that apply:**

   a. +3.3VDC

   b. 110VAC

   c. +5VDC

   d. +/- 12VDC

   e. -48VDC

   f. 230VDC

6. **Which of the following are performance or functional difference between an HDD and an SDD? Choose two:**

a. Rotational delay

b. Access time

c. Storage capacity

d. All of the above

7. **An SSD device uses one of which two of the following interfaces? Choose two:**

   a. PATA

   b. SATA

   c. SCSI

   d. SAS

8. **Which of the following storage technologies describes a number of independent disks not configured into an array?**

   a. RAID

   b. DAS

   c. SAN

   d. JBOD

9. **Which one of the following is a serious malfunction of an electronics or mechanical device in a computer that requires a repair or replacement?**

   a. Hard failure

   b. Soft failure

   c. Catastrophic failure

   d. Predictive failure

10. **Which two of the following identify the access to data resources in a SAN for servers and hosts?**

    a. File permissions

    b. LUN zoning

    c. LUN masking

    d. Filesystem

11. **What is the cloud structure model that is a completely proprietary computing network architecture specific to an organization and its users?**

    a. Community

    b. Public

    c. Private

    d. Hybrid

12. **Which two of the following features are used to restrict system changes to only authorized users on Windows and Linux systems, respectively?**

    a. UAC

    b. Windows Explorer

    c. chown

    d. sudo

13. **What are two redundancy methods applied in the different RAID levels? Choose two:**

    a. Mirroring

    b. Compression

c. Encryption

d. Striping

14. **Which of the following is not a data redundancy level of RAID?**

a. RAID 0

b. RAID 1

c. RAID 5

d. RAID 10

15. **A system that is fully operational and accessible by users for a significant percentage of time is:**

a. Fault tolerant

b. Fault averse

c. High availability

d. Extreme availability

16. **Match the name on the left to the description on the right that best describes it:**

a. Hot swap	1. requires the powering down of a system to affect replacements or repairs.
b. Cold swap	2. the immediate switchover or replacement of a failed component completed while a system remains fully operational
c. Warm swap	3. the suspension of operations, although still powered, to affect the replacement of a failed component

17. **What is a basic function of a network server?**

a. Communicating with the internet

b. Providing services to network clients

c. Intrusion detection and prevention

d. Providing proxy server functions

18. **True or False: Backward compatibility is a condition or property of software and hardware technologies that provides a newer version of a product to be interoperable with one or more previous or legacy versions of that product.**

    a. True

    b. False

19. **Which of the following is not a system resource managed by an operating system?**

    a. IRQ

    b. I/O address

    c. Device driver

    d. DMA address

20. **On virtually all operating systems, what are the values defining the operating environment for apps and programs?**

    a. Environment variable

    b. Global variable

    c. Universal variable

    d. Local variable

21. **A computer operating system has three primary parts. Which of the following is not one of those**

parts?

a. Device drivers

b. Kernel

c. Shell

d. Filesystem

22. **What are the two most common firmware system configuration systems? Choose two:**

a. CMOS

b. BIOS

c. FAT32

d. UEFI

e. APFS

23. **What identifies a server for the purposes of communication and access to network resources?**

a. User account name

b. Hostname

c. Server name

d. Group account name

24. **On a Windows Server network, the network administrator may grant a domain user what access level? Choose all that apply:**

a. Local computer resources

b. Server-based resources

c. Network-attached resources

d. WAN resources

25. **True or False: One of the basic scripting types is server-side.**

    a. True

    b. False

26. **Which of the following best describes an IPv4 address?**

    a. Classless

    b. 5 classes of 32-bits in 4 octets

    c. 128-bits in 8 sections of 16 bits.

    d. Network identifier has fixed size.

27. **Which IPv4 address class uses 16 bits to identify the network portion of an address?**

    a. Class A

    b. Class B

    c. Class C

    d. Class D

    e. IPv4 is classless.

28. **What network service provides an alias public address to internal network nodes with private LAN addresses?**

    a. DHCP

    b. DNS

c. WINS

d. NAT

29. **Which of the following is an example of CIDR notation?**

    a. 2020::15AD:0:25FF

    b. 201.110.25.16/24

    c. 10.0.0.0

    d. 198.168.32.10:80

30. **What is the significance of a double-colon inserted in an IPv6 address?**

    a. It masks one or more sections not used for routing.

    b. It masks one or more sections containing all zeroes.

    c. It masks one or more sections containing $FFFF_{16}$.

    d. It indicates a TCP/UDP port number.

31. **Which of the following can be used to display the IPv4 and IPv6 addresses of a network workstation?**

    a. ping

    b. traceroute/tracert

    c. nslookup

    d. ipconfig/ifconfig

32. **What is the total number of TCP/UDP ports identified by the IANA?**

a. 65535

b. 49151

c. 1024

d. There is no set number.

33. **Which two of the following are the general types of twisted-pair cabling?**

a. Coaxial

b. Fiber optic

c. UTP

d. STP

e. FDDI

34. **What is the EIA/TIA 568 cabling standard for the maximum cable length between network stations?**

a. 500 meters

b. 185 meters

c. 100 meters

d. 90 meters

e. 10 meters

35. **What is the registered jack connector that is the standard for Ethernet networks?**

a. RJ-11

b. RJ-31

c. RJ-45

d. RS-232

36. **Which of the following copper cable categories is also known as “Gigabit Ethernet” cabling?**

    a. CAT 5

    b. CAT 5e

    c. CAT 6

    d. CAT 7

37. **Which one of the following is not considered a cable testing level?**

    a. Verification

    b. Certification

    c. Attenuation

    d. Qualification

38. **Which of the two transmission modes of fiber optic cabling has the longest attenuation rating?**

    a. Single-mode

    b. Multi-mode

    c. Subscriber connector

    d. Local connector

39. **What is the acronym used for the legal contracts between a software developer or publisher and an end-user who purchases a use license for a software package?**

    a. AUP

b. EULA

c. SOP

d. DRP

40. **What device allows an administrator to use local input and output devices to control a remote system?**

a. COM

b. ITAM

c. KVM

d. LCAM

41. **KVM over IP is an example of what type of device or service?**

a. Localhost

b. Network-based administration

c. GUI

d. SSH

42. **A system administrator can use which of the following to manage the OS of a remote workstation?**

a. RSAT

b. CLI over SSH

c. VNC

d. RDP

e. All of the above

f. None of the above

43. **Which of the following best describes a metered software subscription?**

    a. Based on the number of accesses a user purchases in advance

    b. Usage of the software is automatically recorded and charged against a pre-paid or billed amount

    c. Facilitates the use of a software package by a project team or group

    d. Sets a specific period during which a user can use the software

44. **Which of the following is not a common form of system documentation?**

    a. Service manuals

    b. Architecture diagrams

    c. Recovery plans

    d. Typing tutor

45. **Effective documentation has four qualities: clear language, relative information, _____, and timeliness.**

    a. policies

    b. completeness

    c. appropriateness

    d. lengthy

46. **Which one of the following is not one of the basic construct types of a programming statement?**

    a. Sequence

    b. Selection

    c. Syntactical

    d. Iteration

47. **Which of the following is not a phase of a change control process?**

    a. Approval

    b. Immediate application

    c. Implement

    d. Purpose

    e. Scope

    f. Test

48. **One difference between a change management program and a patch management program is:**

    a. Patch management should be a priority.

    b. Patches should use the same change management process as major OS updates.

    c. Patch management requires no testing.

    d. A software patch only affects the user interface.

49. **Which one of the following is typically not the cause of a *partition inaccessible* error on a computer?**

a. Corrupted disk sector

b. Corrupted user access permissions

c. CRC errors

d. Corrupted MFT or FAT

50. **What is the more common reference to what is technically a stop error code message screen?**

a. BSOD

b. RSOD

c. PSOD

d. System freeze

51. **If the BIOS/UEFI startup process detects an error or possible error, it signals the code to identify the issue and its source. What are these audible signals commonly called?**

a. Error indicators

b. Failure alarms

c. Beep codes

d. POST alerts

52. **The objective of a preventive maintenance program is to:**

a. Extend the service life of a server component

b. Avoid component failures

c. Maintain server uptime commitments

d. All of the above.

53. **Which of the following provides that data, files, and system resources have not been the target of an attack or have not been modified by an unauthorized user or malware?**

    a. Integrity

    b. Confidentiality

    c. Availability

    d. Immutable

54. **The server cluster configuration in which a standby or failover server is available to replace a failed server, if required, is a(n):**

    a. Active/active

    b. Active/passive

    c. Passive/passive

    d. Hot swappable

55. **A failed server device or component that an administrator may replace while a system remains running and productive is a:**

    a. Cold swap

    b. Warm swap

    c. Hot swap

    d. Just right swap

56. **Which of the following is not a virtualization technology used in computer networks?**

    a. Virtual private network

b. Virtual reality

c. Virtual local area network

d. Virtual server

57. **What is an intentional attack by an unauthorized threat actor to view or harvest confidential, sensitive, or private information?**

a. Data leak

b. Data breach

c. MitM attack

d. Eavesdropping attack

58. **Which of the following is not a type of disaster recovery site?**

a. Cold

b. Warm

c. Hot

d. Real-time

59. **What is an accidental exposure of confidential, sensitive, or private information?**

a. Data breach

b. Keylogger attack

c. Data leak

d. Rootkit attack

60. **Between a data backup and a data replication, which stores a duplication of data that is real-**

time or near-real-time?

a. Data backup

b. Data replication

c. Both

d. Neither

61. **Which replication method can be impacted by latency?**

a. Synchronous

b. Asynchronous

c. Near-synchronous

d. Near-asynchronous

62. **Which of the following are replication methodologies? Choose all that apply:**

a. Disk-to-disk

b. Cluster-to-cluster

c. Server-to-server

d. All of the above

e. None of the above

63. **Which data backup method resets an archive bit that was turned on after the last full back up?**

a. Full

b. Incremental

c. Snapshot

d. Differential

e. Copy

64. **Which of the following is not a category of data backup media?**

    a. Linear access

    b. Random access

    c. Layered access

    d. Removable media

65. **What is the metric that is the desired completion time of a disaster recovery plan?**

    a. 3-2-1

    b. RTO

    c. RPO

    d. R2D2

66. **Which of the following is not one of the ways in which DHCP servers allocate network configurations to hosts?**

    a. Automatic

    b. Dynamic

    c. APIPA

    d. Static

67. **Which method uses multiple authentication factors to verify a supplicant?**

    a. SFA

    b. CHAP

c. DHCP

d. MFA

68. **Which of the following is not a type of factor used in authentication?**

a. Something you know

b. Something you have

c. Someone you know

d. Something you do

69. **Which one of the following is used to determine the process, service, or application that an incoming message is to be forwarded to for processing?**

a. Sockets

b. Ports

c. I/O addresses

d. IRQs

70. **Which of the following is not a general threat category to a physical area?**

a. Cyber

b. Environmental

c. Technical

d. Man-made

71. **A company has a large server room with several rows of rack-mounted servers, power units, and network attached storage. It has arranged the**

devices in rows so that the HVAC system provides the right amount of cooling to each row. What is the environmental control approach in use in its server room?

a. Zone conditioning

b. Compartmentalization

c. Cold aisle/Hot aisle

d. On row/Off row

72. **Which of the following is not typically scanned or reported by an environmental monitoring system?**

a. Temperature

b. Logical intrusion

c. Smoke and chemical fumes

d. Humidity

73. **Which two of the following are the most commonly used backup strategies?**

a. 3-2-1

b. Daily

c. Grandfather-father-son

d. Annual

74. **What device provides electrical power distribution to rack-mounted devices through multiple AC outlets?**

a. PDU

b. HVAC

c. UPS

d. PSU

75. **This type of virtualization creates independent virtual servers that share the OS kernel of the host system:**

a. Full virtualization

b. OS virtualization

c. Para-virtualization

d. Network virtualization

76. **Which of the following is not a commonly used identification factor of access control?**

a. Group

b. Role or assignment

c. Application type

d. Computer name

77. **The permissions and rights assigned to a specific user or group is defined in what element?**

a. ACL

b. ACX

c. ACE

d. ACR

78. **The application of a cryptographic algorithm to data for the purpose of restricting access to its content is**

    a. Confidentiality

    b. Authentication

    c. Authorization

    d. Encryption

79. **Which of the following is a method for removing data from a disk drive:**

    a. Delete

    b. Wipe

    c. Erase

    d. Shred

    e. All the above

    f. None of the above

80. **Which of the following describes the status of any data on a disk drive after formatting:**

    a. Unrecoverable

    b. Destroyed

    c. Recoverable

    d. Unreadable

81. **What is the objective of hardening a system or device?**

    a. Extending service life

b. Strengthening its case

c. Reducing vulnerability

d. Taking it offline

82. **True or False: Application hardening modifies the binary code of an application.**

a. True

b. False

83. **Setting a BIOS/UEFI password is an example of which of the following?**

a. Application hardening

b. OS hardening

c. Network hardening

d. Hardware hardening

84. **What is the unique ID number assigned to an HDD and used by an OS to identify the storage devices on a system?**

a. Device ID

b. Disk signature

c. Hash code

d. MAC address

85. **What diagnostic activity is a structured process used to identify and isolate a computer problem?**

a. Maintenance

b. Analysis

c. Troubleshooting

d. System testing

86. **What is the first step in the process to determine the source or cause of a computer performance issue?**

a. Identify the problem

b. Reboot the computer

c. Shutdown the computer

d. Test a possible solution

87. **Perhaps, the best way to verify that a reported problem exists is to do which of the following?**

a. Determine whether the problem is hardware or software

b. Remove the suspected hardware or software

c. Recreate the problem

d. Reboot the system.

88. **Before starting any work on a computer to isolate and identify a problem, what cautionary action should you take?**

a. Open a command prompt window

b. Back up the entire hard disk

c. Remove the hard disk drive

d. Boot the computer from a floppy disk

89. **Which one of the following is a collection of group policy settings defining the rights and privileges of a defined user group on a Windows system?**

    a. RTC

    b. SCA

    c. GPO

    d. PID

90. **What is the term used to describe a child process that continues to run after its parent process has ended or has been terminated without waiting for the child's execution to complete?**

    a. Zombie

    b. Orphan

    c. Step-child

    d. Dead object

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